

LESSON PLAN.						
Academic Session :- 2021-22						
Subject :- Manufacturing Technology , Subject code - Th-2					Total Period :- 60	
Teacher :- BAIKUNTH BEHERA (PTGF, MECHANICAL ENGINEERING DEPT.)					Theory :- 4p/week	
SEMESTER:-4th						
MONTH	Week	Date	Syllabus to be covered	Syllabus actually covered	Short fall	Signature
M A R C H	1ST	10.03.2022	<b>1.0 Tool Materials</b> 1.1 Composition of various tool materials.			
		11.03.2022	1.1 Composition of various tool materials.			
	2ND	15.03.2022	1.1 Composition of various tool materials.			
		16.03.2022	1.2 Physical properties& uses of such tool materials.			
		17.03.2022	<b>2.1 Cutting Tools</b> 2.1 Cutting action of various and tools such as Chisel, hacksaw blade			
	3RD	22.03.2022	2.3 Turning tool geometry and purpose of tool angle			
		23.03.2022	2.5 Machining process parameters (Speed, feed and depth of cut)			
		24.03.2022	2.6 Coolants and lubricants in machining and purpose			
		25.03.2022	<b>3.0 Lathe Machine</b> 3.1 Construction and working of lathe			
	4TH	29.03.2022	Major components of a lathe and their function			
		30.03.2022	Operations carried out in a lathe(Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling)			
		31.03.2022	Safety measures during machining			
A P R I L	1ST	05.04.2022	3.2 Capstan lathe ,Difference with respect to engine lathe, Major components and their function,Define multiple tool holders			
		06.04.2022	3.3 Turret Lathe ,Difference with respect to capstan lathe ,Major components and their function			
		07.04.2022	3.4 Draw the tooling layout for preparation of a hexagonal bolt &bush			
		08.04.2022	<b>4.0 Shaper</b> 4.1 Potential application areas of a shaper machine			
	2ND	12.04.2022	4.2 Major components and their function			
		13.04.2022	4.3 Explain the automatic able feed mechanism			
	3RD	19.04.2022	4.4 Explain the construction &working of tool head			
		20.04.2022	4.5 Explain the quick return mechanism through sketch			
		21.04.2022	4.6 State the specification of a shaping machine.			
	4TH	22.04.2022	<b>5.0 Planning Machine</b> 5.1 Application area of a planer and its difference with respect to shaper			
		26.04.2022	5.2 Major components and their functions			
		27.04.2022	5.3 The table drive mechanism			
		28.04.2022	5.4 Working of tool and tool support			
29.04.2022		5.5 Clamping of work through sketch.				
M A Y	1ST	04.05.2022	<b>6.0 Milling Machine</b> 6.1 Types of milling machine and operations performed by them and also same for CNC milling machine			
		05.05.2022	6.2 Explain work holding attachment			
		06.05.2022	6.3 Construction & working of simple dividing head			
	2ND	10.05.2022	6.3 Construction & working of universal dividing head			
		11.05.2022	6.4 Procedure of simple and compound indexing			
		12.05.2022	6.5 Illustration of different indexing methods			
		13.05.2022	<b>7.0 Slotter</b> 7.1 Major components and their function			
	3RD	17.05.2022	7.2 Construction and working of slotter machine			
18.05.2022		7.3 Tools used in slotter				
19.05.2022		<b>8.0 Grinding</b> 8.1 Significance of grinding operations				
		20.05.2022	8.2 Manufacturing of grinding wheels			

	4TH	24.05.2022	8.3 Criteria for selecting of grinding wheels			
		25.05.2022	8.4 Specification of grinding wheels with example Working of Cylindrical Grinder			
		26.05.2022	8.4 Specification of grinding wheels with example Working of Surface Grinder			
		27.05.2022	8.4 Specification of grinding wheels with example Working of Centreless Grinder			
		31.05.2022	<b>9.0 Internal Machining operations</b> Classification of drilling machines			
J U N E	1ST	01.06.2022	9.1 Working of Bench drilling machine			
		02.06.2022	9.1 Working of Pillar drilling machine			
		03.06.2022	9.1 Working of Radial drilling machine			
	2ND	07.06.2022	9.2 Boring Basic Principle of Boring Different between Boring and drilling			
		08.06.2022	9.3 Broaching Types of Broaching(pull type, push type) Advantages of Broaching and applications			
		09.06.2022	<b>10 Surface finish, lapping</b> 10.1 Definition of Surface finish			
		10.06.2022	10.2 Description of lapping& explain their specific cutting.			
	3RD	16.06.2022				
		17.06.2022				
	4TH	21.06.2022				
		22.06.2022				
		23.06.2022				
		24.06.2022				